

AMENDMENT TO THE CLAIMS:

Please amend claims 1, 3, 6 and 11 as follows:

1. (Currently Amended) Process for transmitting data in either direction between a first data transmission device (1) connected to a first network (2) for transmission by packets, of the cellular telephone type, and a second transmission device (7) connected to a second network (6) for transmission of data by packets, of the INTERNET type, each packet of one and the other of the networks (2, 6) comprising a field of useful data (16, 18) and a signaling field (17, 19), the process being characterized in that the two networks (2,6) are connected by a gateway (3, 4, 5) for data adaptation and for controlling routing on the two networks (2, 6), with data in ~~two~~ packet fields (18, 19) in packets that are communicated on the second network (6) being transported on the first network (2) respectively within ~~two~~ counterpart packet fields (16, 17) of packets that are communicated on the first network (2), the gateway (3, 4, 5) formatting the packets in both directions, in order to extract and reform, in a single packet (20), the packets from the first network (2), sending it via the INTERNET (6) and separating the packet (20) coming from the INTERNET (6), into packets for transmission on the first network (2).

2. (Previously presented) Process according to claim 1, wherein code words representing signaling of the second network (6) are added as data in the packets that are communicated on the first network (2).

3. (Currently Amended) Process according to claim 1, wherein the data packet fields for signaling data on the second network are limited in size and format ~~configuration to~~ by the size and format ~~configuration~~ of the packet fields on the first network (2), and wherein in order to transport the signaling (19) of the packets of the second network (6) into

those of the first network (2), code words of the first network, which have no use in connections between two such networks (2, 6), are not included in packets on the first network.

4. (Previously presented) Process according to claim 1, wherein the data are transmitted between a first, GSM network (2) and a second, INTERNET network (6), by accommodating INTERNET addresses in the signalling field of SMS packets.

5. (Previously presented) Process according to claim 1, wherein at the gateway (4), the two packet fields of the second network (18, 19) are extracted from the packets coming from the first network (2) before the two packet fields of the second network are sent on the second network (6) in the form of a packet (20) of the second network (6).

6. (Currently amended) Process for transmitting data between a non-Internet network of a packet transmission type and an Internet, the process comprising:

communicating data in two packet fields (18, 19) in packets that are communicated on the Internet;

communicating data in two corresponding packet fields (16, 17) on the non-Internet network;

wherein a size and format configuration of the ~~two~~ packet fields communicated on the Internet network ~~is~~ are limited by the size and format configuration of the corresponding packet fields communicated on the non-Internet network; and

wherein data received in the ~~two~~ packet fields (16, 17) on the non-Internet network is transferred to the ~~two~~ packet fields (18, 19) on the Internet, and

wherein data received in the packet fields (18, 19) on the Internet is transferred to the packet fields (16, 17) on the non-Internet network.

7. (Original) Process according to claim 6, wherein code words representing signaling of the Internet are added as

data in one of the two packet fields that are communicated on the non-Internet network.

8. (Original) Process according to claim 6, wherein in order to transmit the signaling (19) of the packets of the Internet network (6) in the packets of the non-Internet network (2), code words of said non-Internet network, which have no function in connections between two such networks (2, 6), are not included in data packets on the non-Internet network.

9. (Original) Process according to claim 6, wherein the data are transmitted between the non-Internet network (2) and the Internet network (6), by inserting Internet addresses in a signaling field of one of the packets on the non-Internet network.

10. (Original) Process according to claim 6, wherein at the gateway (4), the two packet fields (18, 19) of the Internet network 6 are extracted from the packets coming from the non-Internet network (2) before the two packet fields of the Internet are sent on the Internet (6) in the form of a packet (20) of the Internet (6).

11. (Currently amended) A gateway for transmitting data in data packets between a non-Internet network (2) and an Internet network (6), the gateway comprising:

routing circuits (3) for controlling routing of packets on the non-Internet network (2) and the Internet network (6);

transmission circuits (5) for transmitting and receiving packets on the non-Internet network (2) and the Internet network (6); and

adaptation circuits (4) connected to the transmission circuits (5) to receive and transmit data in packets to and from both the non-Internet network (2) and the Internet network (6),

wherein the adaptation circuits communicate data between ~~two~~ counterpart packet fields (16, 17) in packets communicated on the non-Internet network (2) and ~~two~~ respective packet fields (18, 19) in packets communicated on the Internet network (6).

12. (Original) The gateway according to claim 11, wherein code words representing signaling of the Internet network (6) are included in the data packets that are communicated on the non-Internet network (2).

13. (Original) The gateway according to claim 11, wherein in order to transport the signaling (19) of the packets of the Internet network (6) into those of the non-Internet network (2), code words of said non-Internet network, which have no use in connections between two such networks (2, 6), are not included in packets on the non-Internet network.

14. (Original) The gateway according to claim 11, wherein the non-Internet network is a GSM network (2) and wherein Internet addresses are included in the signaling field of SMS packets on the GSM network.

15. (Original) The gateway according to claim 11, wherein the two packet fields (18, 19) of the Internet network (18, 19) are extracted by the adaptation circuits from the packets coming from the non-Internet network (2) before the two packet fields of the Internet network are sent to the Internet network in the form of a data packet (20).